
Sequence Listing was accepted.

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Reviewer: Keisha Douglas

Timestamp: [year=2009; month=3; day=23; hr=12; min=28; sec=39; ms=575;]

Validated By CRFValidator v 1.0.3

Application No: 10516759 Version No: 2.1

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No. of SeqIDs Defined: 17
Actual SeqID Count: 17

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SEQUENCE LISTING

<110> ZENSUN(SHANGHAI)SCIENCE AND TECHNOLOGY LIMITED Zhou, Mingdong <120> ERBB3 BASED METHODS AND COMPOSITIONS FOR TREATING NEOPLASMS <130> 11748-006-999 <140> 10/516,759 <141> 2006-03-03 <150> PCT/CN03/00217 <151> 2003-03-26 <150> CH 02116259 <151> 2002-03-26 <160> 17 <170> FastSEQ for Windows Version 4.0 <210> 1 <211> 1342 <212> PRT <213> Homo sapiens <400> 1 Met Arg Ala Asn Asp Ala Leu Gln Val Leu Gly Leu Leu Phe Ser Leu Ala Arg Gly Ser Glu Val Gly Asn Ser Gln Ala Val Cys Pro Gly Thr 2.0 2.5 Leu Asn Gly Leu Ser Val Thr Gly Asp Ala Glu Asn Gln Tyr Gln Thr 40 Leu Tyr Lys Leu Tyr Glu Arg Cys Glu Val Val Met Gly Asn Leu Glu 55 Ile Val Leu Thr Gly His Asn Ala Asp Leu Ser Phe Leu Gln Trp Ile 70 75 Arg Glu Val Thr Gly Tyr Val Leu Val Ala Met Asn Glu Phe Ser Thr Leu Pro Leu Pro Asn Leu Arg Val Val Arg Gly Thr Gln Val Tyr Asp 100 105 Gly Lys Phe Ala Ile Phe Val Met Leu Asn Tyr Asn Thr Asn Ser Ser 120 125 His Ala Leu Arg Gln Leu Arg Leu Thr Gln Leu Thr Glu Ile Leu Ser 135 Gly Gly Val Tyr Ile Glu Lys Asn Asp Lys Leu Cys His Met Asp Thr 155 150 Ile Asp Trp Arg Asp Ile Val Arg Asp Arg Asp Ala Glu Ile Val Val 170 Lys Asp Asn Gly Arg Ser Cys Pro Pro Cys His Glu Val Cys Lys Gly 185 Arg Cys Trp Gly Pro Gly Ser Glu Asp Cys Gln Thr Leu Thr Lys Thr 200 Ile Cys Ala Pro Gln Cys Asn Gly His Cys Phe Gly Pro Asn Pro Asn

215

220

210

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	Asp	CAa	Phe			Arg	His	Phe			Ser	Gly	Ala	-	
Dwo	Arq	Crra	Dwo	245	D.200	т о	77-1	Т	250	T	т о	Thr	Dho	255	Т ол
PIO	Arg	Cys	260	GIN	Pro	Leu	vai	265	ASN	ьуѕ	ьeu	Inr	270	GIN	Leu
Glu	Pro	Asn 275	Pro	His	Thr	Lys	Tyr 280	Gln	Tyr	Gly	Gly	Val 285	Cys	Val	Ala
Ser	Cys 290	Pro	His	Asn	Phe	Val 295	Val	Asp	Gln	Thr	Ser 300	Cys	Val	Arg	Ala
Cys 305	Pro	Pro	Asp	Lys	Met 310	Glu	Val	Asp	Lys	Asn 315	Gly	Leu	Lys	Met	Cys 320
Glu	Pro	Cys	Gly	Gly 325	Leu	Cys	Pro	Lys	Ala 330	CÀ2	Glu	Gly	Thr	Gly 335	Ser
Gly	Ser	Arg			Thr	Val	Asp			Asn	Ile	Asp	_		Val
Δen	Суз	Thr	340	Tla	T.011	Glv	Δan	345	Agn	Dhe	T. 211	Tla	350	Glv	T.011
		355					360					365			
Asn	Gly 370	Asp	Pro	Trp	His	Lys 375	Ile	Pro	Ala	Leu	380	Pro	Glu	Lys	Leu
Asn 385	Val	Phe	Arg	Thr	Val 390	Arg	Glu	Ile	Thr	Gly 395	Tyr	Leu	Asn	Ile	Gln 400
Ser	Trp	Pro	Pro	His	Met	His	Asn	Phe	Ser	Val	Phe	Ser	Asn	Leu	Thr
	-			405					410					415	
Thr	Ile	Gly	Gly 420	Arg	Ser	Leu	Tyr	Asn 425	Arg	Gly	Phe	Ser	Leu 430	Leu	Ile
Met	Lys	Asn 435	Leu	Asn	Val	Thr	Ser 440	Leu	Gly	Phe	Arg	Ser 445	Leu	Tàs	Glu
Ile	Ser 450	Ala	Gly	Arg	Ile	Tyr 455	Ile	Ser	Ala	Asn	Arg 460	Gln	Leu	CÀa	Tyr
His	His	Ser	Leu	Asn	Trp		Lvs	Val	Leu	Ara		Pro	Thr	Glu	Glu
465					470		-1-			475	1				480
Arg	Leu	Asp	Ile	Lys 485	His	Asn	Arg	Pro	_	Arg	Asp	Суѕ	Val		Glu
Gly	Lys	Val	Суз		Pro	Leu	Cys		490 Ser	Gly	Gly	Cys	_	495 Gly	Pro
Gly	Pro	Gly	500 Gln	Cys	Leu	Ser	Cys	505 Arg	Asn	Tyr	Ser	Arg	510 Gly	Gly	Val
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Cys	530	IIIT	піз	Cys	ASII	535	Leu	ASII	GIY	Giu	540	Arg	GIU	Pne	Ala
	Glu	Ala	Glu	СЛ2		Ser	Суз	His	Pro		Cys	Gln	Pro	Met	
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Ala	His	Phe	Arg 580	Asp	Gly	Pro	His	Cys 585	Val	Ser	Ser	CÀR	Pro 590	His	Gly
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625			-	_	630	-				635			_	_	640
His	Leu	Thr	Met	Ala	Leu	Thr	Val	Ile	Ala	Gly	Leu	Val	Val	Ile	Phe
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Asn	Lys	Arg	Ala	Met	Arg	Arg	Tyr	Leu	Glu	Arg	Gly	Glu	Ser	Ile	Glu

675 680 685

Pro Leu Asp Pro Ser Glu Lys Ala Asn Lys Val Leu Ala Arg Ile Phe 695 Lys Glu Thr Glu Leu Arg Lys Leu Lys Val Leu Gly Ser Gly Val Phe 710 715 Gly Thr Val His Lys Gly Val Trp Ile Pro Glu Gly Glu Ser Ile Lys 725 730 Ile Pro Val Cys Ile Lys Val Ile Glu Asp Lys Ser Gly Arg Gln Ser 745 Phe Gln Ala Val Thr Asp His Met Leu Ala Ile Gly Ser Leu Asp His 760 Ala His Ile Val Arg Leu Leu Gly Leu Cys Pro Gly Ser Ser Leu Gln 775 Leu Val Thr Gln Tyr Leu Pro Leu Gly Ser Leu Leu Asp His Val Arg 790 795 Gln His Arg Gly Ala Leu Gly Pro Gln Leu Leu Asn Trp Gly Val 805 810 Gln Ile Ala Lys Gly Met Tyr Tyr Leu Glu Glu His Gly Met Val His 825 Arg Asn Leu Ala Ala Arg Asn Val Leu Leu Lys Ser Pro Ser Gln Val 840 Gln Val Ala Asp Phe Gly Val Ala Asp Leu Leu Pro Pro Asp Asp Lys 855 860 Gln Leu Leu Tyr Ser Glu Ala Lys Thr Pro Ile Lys Trp Met Ala Leu 870 875 Glu Ser Ile His Phe Gly Lys Tyr Thr His Gln Ser Asp Val Trp Ser 885 890 Tyr Gly Val Thr Val Trp Glu Leu Met Thr Phe Gly Ala Glu Pro Tyr 905 Ala Gly Leu Arg Leu Ala Glu Val Pro Asp Leu Leu Glu Lys Gly Glu 920 Arg Leu Ala Gln Pro Gln Ile Cys Thr Ile Asp Val Tyr Met Val Met 935 940 Val Lys Cys Trp Met Ile Asp Glu Asn Ile Arg Pro Thr Phe Lys Glu 950 955 Leu Ala Asn Glu Phe Thr Arg Met Ala Arg Asp Pro Pro Arg Tyr Leu 965 970 Val Ile Lys Arg Glu Ser Gly Pro Gly Ile Ala Pro Gly Pro Glu Pro 980 985 His Gly Leu Thr Asn Lys Lys Leu Glu Glu Val Glu Leu Glu Pro Glu 1000 Leu Asp Leu Asp Leu Asp Leu Glu Ala Glu Glu Asp Asn Leu Ala Thr 1015 1020 Thr Thr Leu Gly Ser Ala Leu Ser Leu Pro Val Gly Thr Leu Asn Arg 1035 1030 Pro Arg Gly Ser Gln Ser Leu Leu Ser Pro Ser Ser Gly Tyr Met Pro 1045 1050 Met Asn Gln Gly Asn Leu Gly Glu Ser Cys Gln Glu Ser Ala Val Ser 1060 1065 Gly Ser Ser Glu Arg Cys Pro Arg Pro Val Ser Leu His Pro Met Pro 1080 Arg Gly Cys Leu Ala Ser Glu Ser Ser Glu Gly His Val Thr Gly Ser 1100 1095 Glu Ala Glu Leu Gln Glu Lys Val Ser Met Cys Arg Ser Arg Ser Arg 1110 1115 Ser Arg Ser Pro Arg Pro Arg Gly Asp Ser Ala Tyr His Ser Gln Arg 1125 1130

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Glu Glu Asp Val Asn Gly Tyr Val Met Pro Asp Thr His Leu Lys C	Sly
1155 1160 1165	
Thr Pro Ser Ser Arg Glu Gly Thr Leu Ser Ser Val Gly Leu Ser S	er
Val Leu Gly Thr Glu Glu Glu Asp Glu Asp Glu Glu Tyr Glu Tyr N	1ot
	200
Asn Arg Arg Arg His Ser Pro Pro His Pro Pro Arg Pro Ser S	
1205 1210 1215	
Leu Glu Glu Leu Gly Tyr Glu Tyr Met Asp Val Gly Ser Asp Leu S	er
1220 1225 1230	
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1235 1240 1245	
Met Pro Thr Ala Gly Thr Thr Pro Asp Glu Asp Tyr Glu Tyr Met A	sn
1250 1255 1260	
Arg Gln Arg Asp Gly Gly Gly Pro Gly Gly Asp Tyr Ala Ala Met G	_
	.280
Ala Cys Pro Ala Ser Glu Gln Gly Tyr Glu Glu Met Arg Ala Phe G	3 ⊤ []
Gly Pro Gly His Gln Ala Pro His Val His Tyr Ala Arg Leu Lys T	'hr
1300 1305 1310	
Leu Arg Ser Leu Glu Ala Thr Asp Ser Ala Phe Asp Asn Pro Asp T	yr
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35 40 45	
Leu Tyr Lys Leu Tyr Glu Arg Cys Glu Val Val Met Gly Asn Leu G	Slu
50 55 60	_
Ile Val Leu Thr Gly His Asn Ala Asp Leu Ser Phe Leu Gln Trp I	
	30
Arg Glu Val Thr Gly Tyr Val Leu Val Ala Met Asn Glu Phe Ser 7	.nr
Leu Pro Leu Pro Asn Leu Arg Val Val Arg Gly Thr Gln Val Tyr A	sp
100 105 110	-2P
Gly Lys Phe Ala Ile Phe Val Met Leu Asn Tyr Asn Thr Asn Ser S	er
115 120 125	
His Ala Leu Arg Gln Leu Arg Leu Thr Gln Leu Thr Glu Ile Leu S	er
130 135 140	
Gly Gly Val Tyr Ile Glu Lys Asn Asp Lys Leu Cys His Met Asp T	hr

Ile Asp Trp Arg Asp Ile Val Arg Asp Arg Asp Ala Glu Ile Val Val

Lys Asp Asn Gly Arg Ser Cys Pro Pro Cys His Glu Val Cys Lys Gly

Arg Cys Trp Gly Pro Gly Ser Glu Asp Cys Gln Thr Leu Thr Lys Thr Ile Cys Ala Pro Gln Cys Asn Gly His Cys Phe Gly Pro Asn Pro Asn Gln Cys Cys His Asp Glu Cys Ala Gly Gly Cys Ser Gly Pro Gln Asp Thr Asp Cys Phe Ala Cys Arg His Phe Asn Asp Ser Gly Ala Cys Val Pro Arg Cys Pro Gln Pro Leu Val Tyr Asn Lys Leu Thr Phe Gln Leu Glu Pro Asn Pro His Thr Lys Tyr Gln Tyr Gly Gly Val Cys Val Ala Ser Cys Pro His Asn Phe Val Val Asp Gln Thr Ser Cys Val Arg Ala Cys Pro Pro Asp Lys Met Glu Val Asp Lys Asn Gly Leu Lys Met Cys Glu Pro Cys Gly Gly Leu Cys Pro Lys Ala Cys Glu Gly Thr Gly Ser Gly Ser Arg Phe Gln Thr Val Asp Ser Ser Asn Ile Asp Gly Phe Val Asn Cys Thr Lys Ile Leu Gly Asn Leu Asp Phe Leu Ile Thr Gly Leu Asn Gly Asp Pro Trp His Lys Ile Pro Ala Leu Asp Pro Glu Lys Leu Asn Val Phe Arg Thr Val Arg Glu Ile Thr Gly Tyr Leu Asn Ile Gln Ser Trp Pro Pro His Met His Asn Phe Ser Val Phe Ser Asn Leu Thr Thr Ile Gly Gly Arg Ser Leu Tyr Asn Arg Gly Phe Ser Leu Leu Ile Met Lys Asn Leu Asn Val Thr Ser Leu Gly Phe Arg Ser Leu Lys Glu Ile Ser Ala Gly Arg Ile Tyr Ile Ser Ala Asn Arg Gln Leu Cys Tyr His His Ser Leu Asn Trp Thr Lys Val Leu Arg Gly Pro Thr Glu Glu Arg Leu Asp Ile Lys His Asn Arg Pro Arg Arg Asp Cys Val Ala Glu Gly Lys Val Cys Asp Pro Leu Cys Ser Ser Gly Gly Cys Trp Gly Pro Gly Pro Gly Gln Cys Leu Ser Cys Arg Asn Tyr Ser Arg Gly Gly Val Cys Val Thr His Cys Asn Phe Leu Asn Gly Glu Pro Arg Glu Phe Ala His Glu Ala Glu Cys Phe Ser Cys His Pro Glu Cys Gln Pro Met Glu Gly Thr Ala Thr Cys Asn Gly Ser Gly Ser Asp Thr Cys Ala Gln Cys Ala His Phe Arg Asp Gly Pro His Cys Val Ser Ser Cys Pro His Gly Val Leu Gly Ala Lys Gly Pro Ile Tyr Lys Tyr Pro Asp Val Gln Asn Glu Cys Arg Pro Cys His Glu Asn Cys Thr Gln Gly Cys Lys Gly Pro Glu Leu Gln Asp Cys Leu Gly Gln Thr Leu Val Leu Ile Gly Lys Thr

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Gly Lys Phe Ala Ile Phe Val Met Leu Asn Tyr Asn Thr Asn Ser Ser